

JESSICA E. BRANDT, Ph.D.

University of Connecticut, Natural Resources and the Environment  
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## EDUCATION

PhD	Duke University, Environmental Health	2018
	▪ Certificate in Integrated Toxicology and Environmental Health	
	▪ Certificate in College Teaching	
MHS	Johns Hopkins Bloomberg School of Public Health, Environmental Health	2012
	▪ Certificate in Risk Sciences and Public Policy	
BA	Johns Hopkins University, Public Health Studies	2011

## APPOINTMENTS

*University of Connecticut, Storrs, CT*

Assistant Professor, Natural Resources and the Environment & Center for Environmental Sciences and Engineering	2020-present
Assistant Professor in Residence, Center for Environmental Sciences and Engineering	2019
USGS Columbia Environmental Research Center, Columbia, MO   Postdoctoral Researcher	2018-2019
Graduate Degree Program in Ecology, Colorado State University, Fort Collins, CO   Associate	2018-2020

## PUBLICATIONS

\*corresponding author, ^graduate student, #undergraduate student, or postdoc<sup>+</sup> in Brandt Lab

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[Citations data](#)

22. KS Campbell<sup>+</sup>, **JE Brandt**, SA Ayers, CR Perkins, AA Provas. 2024. Comprehensive determination of 28 PFAS compounds in oyster tissue: A QuEChERS sample preparation coupled with UPLC-MS/MS. *Accepted at Analytical Letters*.

21. SD Graves<sup>\*1</sup>, N Molbert<sup>+1</sup>, DM Janz, **JE Brandt**, LD Hayhurst, L Timlick, VP Palace. 2023. Relationships among tissues, biofluids, and otolith selenium concentrations in wild female Burbot (*Lota lota*). *Integrated Environmental Assessment and Management*. <sup>1</sup>Co-first authors.

20. KS Campbell<sup>\*\*</sup>, **JE Brandt**, SA Ayers, S Stapcinskaite, CR Perkins, AA Provas. 2023. Quantification of PFAS in oyster tissue using a Rapid QuEChERS extraction followed by UHPLC-MS/MS analysis. *Analytical Letters*, DOI: [10.1080/00032719.2023.2208692](https://doi.org/10.1080/00032719.2023.2208692)

19. AM Helton<sup>\*</sup>, JL Morse, EB Sudduth, M Ardón, R Bier, KA Voss, MRV Ross, JR Blaszcak, **JE Brandt**, M Simonin, JD Rocca, A Carter, JR Gerson, E Ury, M Vlah. 2023. At the interfaces of the hydrologic sciences: Connecting water, elements, ecosystems, and people through the major contributions of Dr. Emily Bernhardt. *J. Hydrol.*, 619: 129251, DOI: <https://doi.org/10.1016/j.jhydrol.2023.129251>

18. CJ Zampetti<sup>#^\*</sup> and **JE Brandt**. 2023. Co-considering selenium concentrations alters mercury-based fish and seafood consumption advice: A data compilation and critical assessment. *Environ. Sci. Technol. Lett.*, 10(2): 179-185, DOI: [10.1021/acs.estlett.2c00925](https://doi.org/10.1021/acs.estlett.2c00925)

17. JAL Gareis, EL Larson, M Ardon, JA Berges, **JE Brandt**, KM Busch, VLS Chraibi, EN Gallagher, KL Hondula, DW Kincaid, TD Levine, CJ Little, ER Nodine, AM Rock, A Shogren, MJ Vanni. 2022. Wikipedia in STEM courses: Using

Wikipedia Assignments to Teach Critical Thinking and Scientific Writing in STEM Courses. *Front. Educ.* 7:905777, DOI: [10.3389/educ.2022.905777](https://doi.org/10.3389/educ.2022.905777)

16. **JE Brandt\***, JJ Roberts, CA Stricker, HA Rogers, P Nease, TS Schmidt\*. 2021. Temporal influences on selenium partitioning, trophic transfer, and exposure in a major U.S. river. *Environ. Sci. Technol.*, 55(6): 3645-3656, DOI: [10.1021/acs.est.0c06582](https://doi.org/10.1021/acs.est.0c06582)

15. DW Kincaid,\* WS Beck, **JE Brandt**, MM Brisbin, KJ Farrell, KL Hondula, EI Larson, AJ Shogren. 2020. Wikipedia can help resolve information inequality in the aquatic sciences. *Limnology & Oceanography Letters*, 6: 18-23, DOI: [10.1002/lol2.10168](https://doi.org/10.1002/lol2.10168)

14. JR Gerson,\* DM Walters, CA Eagles-Smith, ES Bernhardt, **JE Brandt\***. 2020. Do two wrongs make a right? Persistent uncertainties regarding environmental selenium-mercury interactions. *Environ. Sci. Technol. (Perspective)*, 54(15): 9228-9234, DOI: [10.1021/acs.est.0c01894](https://doi.org/10.1021/acs.est.0c01894)

13. A Vengosh, EA Cowan, RM Coyte, AJ Kondash, Z Wang, **JE Brandt**, GW Dwyer. 2019. Evidence for unmonitored coal ash spills in Sutton Lake, North Carolina: Implications for contamination of lake ecosystems. *Sci. Tot. Environ.* 686: 1090-1103. DOI: [10.1016/j.scitotenv.2019.05.188](https://doi.org/10.1016/j.scitotenv.2019.05.188)

12. **JE Brandt\***, M Simonin, RT Di Giulio, ES Bernhardt. 2019. Beyond selenium: Coal combustion residuals lead to multielement enrichment in receiving lake food webs. *Environ. Sci. Technol.* 53 (8): 4119-4127, DOI: [10.1021/acs.est.9b00324](https://doi.org/10.1021/acs.est.9b00324)

11. **JE Brandt\***, NE Lauer, A Vengosh, ES Bernhardt, RT Di Giulio. 2018. Strontium isotope ratios in fish otoliths as biogenic tracers of coal combustion residual inputs to freshwater ecosystems. *Environ. Sci. Technol. Lett.* 5 (12): 718-723, DOI: [10.1021/acs.estlett.8b00477](https://doi.org/10.1021/acs.estlett.8b00477)

10. Y Yang, B Chen, J Hower, M Schindler, C Winkler, **JE Brandt**, RT Di Giulio, M Liu, Y Fu, L Zhang, S Priya, M Hochella.\* 2017. Discovery and ramifications of incidental Magneli phase generation and release from industrial coal burning. *Nature Communications* 8, DOI: [10.1038/s41467-017-00276-2](https://doi.org/10.1038/s41467-017-00276-2)

9. R Scrivo, A Gattamelata, G Peruzzi, C Gross, R Carletti, C Di Gioia, **JE Brandt**, R Priori, S Morrone, A Santoni, Valesini, G.\* 2017. Multicolor flow cytometric analysis of TLR2 and TLR9 expression and function in NK cells from patients with ANCA-associated vasculitis. *Cytometry: Part B – Clinical Cytometry* 94 (3): 412-422, DOI: [10.1002/cyto.b.21586](https://doi.org/10.1002/cyto.b.21586)

8. **JE Brandt\***, ES Bernhardt, GS Dwyer, RT Di Giulio. 2017. Selenium ecotoxicology in freshwater lakes receiving coal combustion residual effluents: A North Carolina example. *Environ. Sci. Technol.* 51 (4): 2418–2426, DOI: [10.1021/acs.est.6b05353](https://doi.org/10.1021/acs.est.6b05353)

7. **JE Brandt**, R Priori, G Valesini, D Fairweather.\* 2015. Sex differences in Sjogren’s syndrome: a comprehensive review of immune mechanisms. *Biol Sex Diff.* 6(19), DOI: [10.1186/s13293-015-0037-7](https://doi.org/10.1186/s13293-015-0037-7)

6. D Fairweather,\* MJ Coronado, AE Garton, JL Dziedzic, A Bucek, LT Cooper Jr., **JE Brandt**, FS Alikhan, H Wang, CJ Endres, J Choi, MG Pomper, TR Guilarte. 2014. Sex differences in translocator protein 18 kDa (TSPO) in the heart: implications for imaging myocardial inflammation. *J Cardiovasc Transl Res.* 7(2):192- 202, DOI: [10.1007/s12265-013-9538-0](https://doi.org/10.1007/s12265-013-9538-0)

5. R Scrivo,\* R Priori, M Coppola, A Minniti, **JE Brandt**, G Picarelli, V Cruciani, P Luzi, G Valesini. 2013. Use of a contact center telephone helpline in rheumatology outpatient management: a five-year experience and patients’ perception. *Mod Rheumatol.* 24(4):585-9, DOI: [10.3109/1439759.2013.844396](https://doi.org/10.3109/1439759.2013.844396)

4. R Priori, R Scrivo, **JE Brandt**, M Valerio, L Casadei, G Valesini,\* C Manetti. 2013. Metabolomics in rheumatic diseases: The potential of an emerging methodology for improved patient diagnosis, prognosis, and treatment efficacy. *Autoimmun Rev.* 10:1022-30, [DOI: 10.1016/j.autrev.2013.04.002](https://doi.org/10.1016/j.autrev.2013.04.002)
3. MJ Coronado, **JE Brandt**, E Kim, A Bucek, D Bedja, ED Abston, J Shin, KL Gabrielson, W Mitzner, D Fairweather.\* 2012. Testosterone and interleukin-1b increase cardiac remodeling during acute coxsackievirus B3 myocarditis via serpin A 3n. *Am. J. Physiol. Heart Circ. Physiol.* 302:H1726-H1736, [DOI 10.1152/ajpheart.00783.2011](https://doi.org/10.1152/ajpheart.00783.2011)
2. ED Abston, JG Barin, D Cihakova, A Bucek, MJ Coronado, **JE Brandt**, D Bedja, JB Kim, D Georgakopoulos, KL Gabrielson, W Mitzner, D Fairweather.\* 2012. IL-33 independently induces eosinophilic pericarditis and cardiac dilation: ST2 improves cardiac function. *Circ Heart Fail.* 5:366-375, [DOI: 10.1161/circheartfailure.111.963769](https://doi.org/10.1161/circheartfailure.111.963769)
1. ED Abston, MJ Coronado, A Bucek, JA Onyimba, **JE Brandt**, JA Frisancho, E Kim, D Bedja, Y Sung, AJ Radtke, KL Gabrielson, W Mitzner, D Fairweather.\* 2012. TLR3 deficiency induces chronic inflammatory cardiomyopathy in resistant mice following coxsackievirus B3 infection: role for IL-4. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 304:R267-R277, [DOI: 10.1152/ajpregu.00516.2011](https://doi.org/10.1152/ajpregu.00516.2011)

#### Data releases

3. AM Bussell, MA Moloney, TS Schmidt, **JE Brandt**, RD Flamenco, CA Strickler, AR Stewart, VA Kocen, JL Dunnigan, and TM Selch. 2023, Fish Tissue Analysis Results, Koocanusa Reservoir, Montana, 2021: U.S. Geological Survey data release, <https://doi.org/10.5066/P9PDTNNS>.
2. J Wesner, **JE Brandt**, G Ruggerone, T Jardine, CA Eagles-Smith, G Ruso, CA Stricker, K Voss, DM Walters. 2023. Modeled Pacific salmon escapement biomass and nutrient and contaminant concentrations across western North America, 1976-2015. Data release, U.S. Geological Survey, <https://doi.org/10.5066/P97457VD> (to be available at time of manuscript publication).
1. TS Schmidt, JJ Roberts, CA Stricker, HA Rogers, P Nease, **JE Brandt**. 2021. Dataset for temporal influences on selenium partitioning, trophic transfer, and exposure in a major U.S. river: Data release, U.S. Geological Survey, <https://doi.org/10.5066/P9TD4THX>

#### CONFERENCE PRESENTATIONS

<sup>+</sup>postdoc, <sup>^</sup>graduate student, or #undergraduate student in Brandt Lab, \*invited talk

35. KS Campbell<sup>+</sup>, **JE Brandt**, C Perkins, A Provatas. 2023. PFAS Method Development and Bioaccumulation in Long Island Sound. Eastern Analytical Symposium, Plainsboro, NJ.
34. TS Schmidt, AM Bussell, MB Storb, M Schaar, S Watson, M Foster, J Blake, C Braun, C Muhlfeld, CA Mebane, J Kraus, S Eldridge, K Chase, JL Dunnigan, B Balmer, K Easthouse, G Hoffman, T Cline, B Colman, M Fylling, N Molbert, **JE Brandt**, F Feyrer, RC Johnson, L Kusnierz, J Gildea. 2023. Describing the water quality and ecological integrity of the mine impacted transboundary Kootenai River Basin. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.
33. M Grimmelpont<sup>+</sup>, JA Bartholomew, K Milligan-McClellan, M Levin, D Bolnick, **JE Brandt**, M Rodgers. 2023. Temperature mediation of PFAS toxicity for estuarine fish in the Long Island Sound Watershed. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.
32. **JE Brandt**, JS Wesner, GT Ruggerone, TD Jardine, GE Ruso, KA Voss, CA Eagles-Smith, CA Stricker, DM Walters. 2023. Shifts in the Pacific salmon community alter continental-scale subsidy biotransport. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.

31. A Agrawal<sup>^</sup>, R Mason, **JE Brandt**. 2023. Effects of nutrients on mercury bioaccumulation at the base of the coastal food web. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.
30. N Molbert<sup>+</sup>, JL Dunnigan, F Feyrer, RC Johnson, TS Schmidt, **JE Brandt**. 2023. Unraveling 40 years of selenium exposure in burbot populations: A mining story in the Elk-Kootenai Watershed. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.
29. KS Campbell<sup>+</sup>, A Baranovic, A Helton, A Provas, JM Kraus, D Walters, **JE Brandt**. 2023. PFAS bioaccumulation and trophic transfer in linked stream and riparian food webs. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.
28. CJ Zampetti<sup>^</sup>, AM Bussell, TS Schmidt, BM Creel, CP Colman, JM Krauss, **JE Brandt**. 2023. Selenium flux from aquatic to terrestrial food webs in the Upper Clark Fork River, Montana. Society of Environmental Toxicology and Chemistry – North America, Louisville, KY.
27. V Palace, S Graves, **JE Brandt**. 2023. Guidance for assessing potential impacts of selenium in freshwater aquatic ecosystems. Canadian Ecotoxicity Workshop, Ottawa, Canada.
26. K Campbell<sup>+</sup>, **JE Brandt**, C Perkins, I McGrath, A Provas. 2022. Targeted analysis of per- and polyfluoroalkyl substances (PFAS) in seawater, plankton, and shellfish tissue using UPLC-MS/MS. Eastern Analytical Symposium, Plainsboro, NJ.
25. A Agrawal<sup>^</sup>, R Mason, **JE Brandt**. 2022. Effects of nutrients on mercury bioaccumulation at the base of the coastal food web. Society of Environmental Toxicology and Chemistry – North America, Pittsburgh, PA.
24. RD Flamenco<sup>^</sup>, TS Schmidt, JJ Roberts, CA Stricker, CA Eagles-Smith, **JE Brandt**. 2022. The coupled trophic transfer of selenium and mercury in a large river. Society of Environmental Toxicology and Chemistry – North America, Pittsburgh, PA.
23. **JE Brandt**, JS Wesner, GT Ruggerone, TD Jardine, GE Ruso, KA Voss, CA Stricker, CA Eagles-Smith, DM Walters (presenter). 2022. Shifts in Pacific salmon community alter continental-scale subsidy biotransport. American Fisheries Society Annual Meeting, Spokane, WA.
22. **JE Brandt**, RD Flamenco<sup>^</sup>, TS Schmidt, JJ Roberts, CA Stricker, CA Eagles-Smith. 2022. The coupled trophic transfer of selenium and mercury in a large river. International Conference on Mercury as a Global Pollutant, virtual.
21. **JE Brandt**, AD Gray, AJ Shogren. 2022. It's time for focused study of contaminants as ecosystem-scale actors. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
20. **JE Brandt**, JS Wesner, GT Ruggerone, TD Jardine, GE Ruso, KA Voss, CA Stricker, CA Eagles-Smith, DM Walters. 2022. The salmon pump: Marine-to-freshwater biotransport of nutrient and contaminant subsidies. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
19. RD Flamenco<sup>^</sup>, TS Schmidt, JJ Roberts, CA Stricker, CA Eagles-Smith, **JE Brandt**. 2022. The coupled trophic transfer of selenium and mercury in a large river. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
18. C Zampetti<sup>#</sup>, **JE Brandt**. 2021. Mercury and selenium interactions in aquatic organisms: Global trends and human health implications. UConn Office of Undergraduate Research Fall Frontiers Exhibition. Storrs, CT.
17. M Gooseff, RT Hensley, M Briggs, M Cohen, A Bergstrom, M DiGiorno, **J Brandt**. 2021. High spatial resolution water quality in the Colorado and Gunnison Rivers of the Western US – Can we see the trees for the forest? American Geophysical Union.
16. **JE Brandt**, JJ Roberts, CA Stricker, HA Rogers, PA Nease, TS Schmidt. 2021. The decoupling of contaminant pulses by recipient food webs in a major U.S. river. Society of Freshwater Science (virtual).

15. RD Flamenco<sup>^</sup>, TS Schmidt, JJ Roberts, CA Stricker, CA Eagles-Smith, **JE Brandt**. 2021. Does selenium mediate aquatic trophic transfer of mercury? Society of Freshwater Science (virtual).
14. AM Baranovic<sup>^</sup>, **JE Brandt**. 2021. Movement of PFAS through aquatic and terrestrial systems. CT Conference on Natural Resources.
13. RD Flamenco<sup>^</sup>, TS Schmidt, JJ Roberts, CA Stricker, CA Eagles-Smith, **JE Brandt**. 2021. Does selenium mediate mercury trophic transfer in the Lower Gunnison River Basin, Colorado? CT Conference on Natural Resources.
12. **JE Brandt**, K Voss, CA Eagles-Smith, G Ruso, T Jardine, CA Stricker, R Lepak, P McIntyre, DM Walters. 2020. Investigating the flux, fate, and influence of salmon-derived mercury in recipient food webs. Society of Toxicology and Environmental Chemistry Annual Conference (virtual).
11. **JE Brandt**, K Voss, CA Eagles-Smith, G Ruso, T Jardine, CA Stricker, R Lepak, P McIntyre, DM Walters. 2020. Predicting where and when salmon-derived mercury could impact recipient ecosystems. Society of Freshwater Science Summer of Science (virtual meeting in lieu of ASLO-SFS 2020).
10. A Vengosh, EA Cowan, RM Coyte, AJ Kondash, Z Wang, **JE Brandt**, GS Dwyer. 2019. Tracing unmonitored coal ash spills in the environment. American Geophysical Union Annual Conference. San Francisco, CA.
9. JR Gerson, **JE Brandt**, CA Eagles-Smith, ES Bernhardt, DM Walters. 2019. A critical review of mercury-selenium interactions and their relationship to toxicity risk in aquatic food webs. International Conference on Mercury as a Global Pollutant. Krakow, Poland
8. **JE Brandt**, NE Lauer, A Vengosh, MRV Ross, ES Bernhardt, RT Di Giulio. 2018. Fish otoliths as tracers and records of inorganic contaminant exposure – testing the key assumption. Society of Toxicology and Environmental Chemistry Annual Conference. Sacramento, CA.
7. **JE Brandt**, RT Di Giulio, M Simonin, ES Bernhardt. 2017. Patterns and ecological influences on coal combustion residual (CCR) distribution in freshwater lakes. Society of Toxicology and Environmental Chemistry Annual Conference. Minneapolis, MN.
6. **JE Brandt**, RT Di Giulio, ES Bernhardt. 2017. Tracing coal ash through aquatic food webs. Society of Freshwater Science Annual Conference. Raleigh, NC.
5. **JE Brandt**, R Trevisan, ES Bernhardt, RT Di Giulio. 2017. Coal combustion residual (CCR) uptake and oxidative stress profiles in Fathead Minnows following dietary exposure to biofilm and plankton collected from a CCR-impacted lake. Water Resources Research Institute Annual Conference. Raleigh, NC.
4. **JE Brandt**, A Vengosh, ES Bernhardt, RT Di Giulio. 2016. Coal combustion residual (CCR) uptake and oxidative stress profiles in fathead minnows following dietary exposure to biofilm and plankton collected from a CCR-impacted lake. NIEHS Environmental Health Science FEST. Durham, NC.
3. **JE Brandt**, GS Dwyer, A Vengosh, H Hsu-Kim, ES Bernhardt, RT Di Giulio. 2016. Selenium ecotoxicology in freshwater lakes receiving coal combustion residual effluents: A North Carolina example. Society of Environmental Toxicology and Chemistry Conference, Orlando, FL.
2. **JE Brandt** and RT Di Giulio. 2015. Legacy impacts of coal combustion residuals on freshwater ecosystems in North Carolina. Canadian Ecotoxicity Workshop. Saskatoon, CA.
1. **JE Brandt**, JS Kozal, JS Osterberg, N Jayasundara, RT Di Giulio. 2014. Developmental toxicity of coal combustion residual (CCR) waste streams to embryonic zebrafish (*Danio rerio*): A Hyco Lake Case Study. Society of Environmental Toxicology and Chemistry Conference. Vancouver, Canada.

## FUNDING

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## ACTIVE

- Assessing temperature mediation of PFAS impacts on coastal fish fitness to inform environmental management. U.S. EPA - Long Island Sound Study. PIs: M Rodgers (NCSU) and **JE Brandt** (UConn), co-PIs: D Bolnick, K Milligan-McClellan, M Levin. 2023-2025. Total award \$709K (\$646K to UConn).
- Assessment and uptake of PFAS in shellfish and fish from coastal areas associated with Tweed-New Haven Airport. SeaGrant CECs in Coastal Areas of the US East Coast. PI: C Perkins, co-PIs: Z Baumann, K Campbell, **JE Brandt**. 2023-2024. Total award \$113K.
- Reconstructing 40 years of selenium exposure from fish otoliths: Archival tissue applications for contaminant biomonitoring in Lake Kooconasa. U.S. EPA Columbia River Basin Restoration Funding Assistance Program – Middle and Upper Columbia River Basin (2022-2024). Grant #RB96886101. PI: **JE Brandt**, co-PIs: TS Schmidt, RC Johnson, JL Dunnigan, F Feyrer. Total award \$327K.
- Investigating selenium and mercury dynamics and influence on aquatic food webs of the western United States. Cooperative Ecosystem Studies Unit Agreement with US Geological Survey (2022-2026). Grant #G22AC00068. PI: **JE Brandt**. Total award to date \$172.5K (FY21- FY23).
- Quantifying PFAS fate and biotransport in stream-to-riparian food webs. USGS National Institute of Water Resources PFAS Program (2021-2024). Project #2021CT003PFAS. PI: **JE Brandt**, co-PIs: AM Helton, DM Walters. Total award \$250K.
- Consequences of increased nutrient loading to Long Island Sound on shellfish contaminant burdens. USDA, National Institute of Food and Agriculture – Hatch (2021-2024). PI: **JE Brandt**, co-PI: R Mason. Total award \$60K.

## COMPLETED

- Assessment of PFAS food web uptake in priority shellfish areas: The roles of nutrient status and trophic transfer. CT Sea Grant (2022-2024). Project # R/ER-31. PI: C Perkins, co-PI: **JE Brandt**. Total award \$140K.
- Integrated Economic Assessment of Contaminants, Best Practice Agricultural Management, and Environmental Policies in Northeastern U.S. Watersheds. USDA, National Institute of Food and Agriculture – Hatch (2020-2023). PI: K Rollins, co-PIs: S Steinbach, M Dietz, A Helton, **JE Brandt**. Total award \$90K to University of Connecticut.
- Contaminant threats to groundwater-supplied ecosystem services in the Farmington River watershed. CT Institute of Water Resources (USGS 104b), 2021-2022 PI: **JE Brandt**, co-PI: A Helton. Total award \$22,297 to University of Connecticut.
- [WikiProject Limnology & Oceanography – Recruiting Aquatic Editors](#). Wikimedia Foundation. 2020. PI: J Zwart, co-PIs: E Larson, A Shogren, D Kincaid, **JE Brandt**, K Farrell, K Hondula, M Brisbin. Total award \$9,200 to WikiProject Limnology and Oceanography.
- ThermoScientific Gallery Plus Discrete Photometric Analyzer. 2020 UConn CAHNR Equipment Grant Competition. PI: A Helton, co-PIs: B Lawrence, K Guillard, J Knighton, **J Brandt**. Total award \$52,672.
- SETAC North America Endowment Fund Early Career Travel Award. 2018. \$800.
- Legacy Impacts of Coal Combustion Residues on Freshwater Ecosystems in North Carolina. Water Resources Research Institute of North Carolina. 2015. PI: R Di Giulio, **J Brandt**, E Bernhardt, A Vengosh, H Hsu-Kim. Total award \$60K to Duke University.

## AWARDS, HONORS, and FELLOWSHIPS

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2023-2025	Society of Freshwater Science Headwaters Leadership Academy
2023	UConn CAHNR Recognition for excellence in teaching
2022, 2023	UConn-AAUP Early Career Teaching Excellence Award <i>Nominee</i>
2022	UConn CAHNR Donald M. Kinsman 2021-2022 Excellence in Teaching Award
2021	UConn Office of Undergraduate Research Mentorship Excellence Award <i>Nominee</i>

2018	Selected participant for Eco-DAS XIII (Ecological Dissertations in the Aquatic Sciences)
2017	Preparing Future Faculty Fellow, Duke University
2017	Trillium Sustainability Fellow, Duke University
2017	Rethinking Regulation Graduate Research Award, Duke University Kenan Institute for Ethics
2016-2018	U.S. EPA STAR (Science to Achieve Results) Graduate Fellow
2016	Bass Instructional Fellowship, Duke University Graduate School
2015, 2017	Environmental Health Scholars Award, Duke University
2013	Chancellor's Scholar Award, Duke University
2012	J William Fulbright U.S. Graduate Student Scholarship to Rome, Italy

## TEACHING

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Environmental Science, NRE 1000, University of Connecticut (Spring 2021, 2022, Fall 2023)  
Ecotoxicology, NRE 4340/5340, University of Connecticut (Fall 2020, Fall 2022)  
The Ecology of Aquatic Organisms Exposed to Multiple Stressors, Colorado State University (Spring 2019)  
Special Topics in Environmental Science—The Food, Energy, Water Nexus, Duke University (Fall 2016)

## ADVISING

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### Major advisor - postdocs and graduate students

#### CURRENT

Years (est.)	Name	Degree Program	Prior Institution (degree)
2023-(2025)	Margot Grimmelpont	Postdoc	University of La Rochelle (PhD)
2022-(2024)	Noëlie Molbert	Postdoc	Lund University (Postdoc)
2022-(2024)	Chloé Zampetti	MS	University of Connecticut (BS)
2022-(2024)	Kaitlyn Campbell	Postdoc	University of South Dakota (PhD)
2021-(2026)	Anika Agrawal	PhD, <a href="#">Harriott Fellow</a>	Texas A&M University at Galveston (MS)

#### PAST

Years (est.)	Name	Degree Program	Current Position
2020-2023	Raul Flamenco	MS, <a href="#">NSF GRFP</a>	Research Associate, National Academies
2020-2022	Alison Baranovic	MS	Environmental Scientist, Fuss & O'Neill

### Associate advisor

#### CURRENT

- Nafis Faud, PhD, UConn Dept of Environmental Engineering
- Sarah Pasqualetti, PhD, UConn Dept of Molecular and Cellular Biology

#### PAST

- Danielle Hare, PhD, UConn Dept of Natural Resources and the Environment (2022)
- Mia Nahom, BS/MS, UConn Dept of Ecology and Evolutionary Biology (2022)
- Adam Haynes, MS, UConn Dept of Natural Resources and the Environment (2021)

### Undergraduate research advising

- Elizabeth Davis (2023)
- Jacqueline Baron (2023-current)
- Stefania Payares Arteaga (2023-current)
- Julia Michnowicz (2022-2023)
- Chloé Zampetti, Honors student and [IDEA Grant](#) Recipient in Brandt Lab (2020-2022)

- Claudia Harris (2020-2022)
- Madison Platow (2021)

## **ADVISORS**

MHS Advisor: Delisa Fairweather, Johns Hopkins Bloomberg School of Public Health (now Mayo Clinic, FL)

PhD Advisors: Richard Di Giulio and Emily Bernhardt, Duke University

Postdoc Advisor: David Walters, USGS Columbia Environmental Research Center